

Canadian Association des Pharmacists pharmaciens Association du Canada

Continuous Glucose Monitoring (CGM) In Practice Senhancing Satisfaction

How I Used Continuous Glucose Monitoring (CGM) In My Practice to Enhance My Job Satisfaction

Presented by: Susie Jin, RPh CDE 2024-Nov-14



Canadian Association des Pharmacists pharmaciens Association du Canada

Presenter/Speaker Personal Disclosure

Presenter's Name: Susie Jin

• I have the following relationships with commercial interests:

- Advisory Board/Speakers Bureau: Dexcom, Eisai, NovoNordisk
- Funding (Grants/Honoraria) : not applicable
- Research/Clinical Trials:
 Nov
- Speaker/Consulting Fees:
- NovoNordisk Abbott, Boehringer Ingelheim, Dexcom, Eisai, GlaxoSmithKline, Kenvue, Lilly, Moderna, NovoNordisk, Pfizer
- Other: Not applicable to all of the following
 - Current/past Employee
 - Investments: Investments in sponsor organization or entity with product in program
 - Patent in product



Disclosure of Financial Support

 This program has received financial support in the form of an educational grant from Dexcom

• Speaking Fees for current program:

• I have received a speaker's fee from Canadian Pharmacists Association for this learning activity



Action Goals

By the end of this webinar, participants will WANT to:

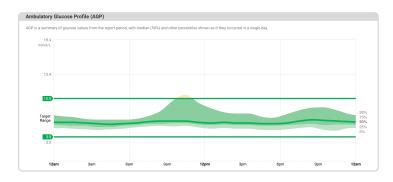
Proactively engage with people in our community pharmacies to ensure:

- ✓ People who are using continuous glucose monitoring (CGM), know their CGM numbers and what they mean
- ✓ People who could benefit from using CGM to support their diabetes self-care are aware of how CGM technology could help them

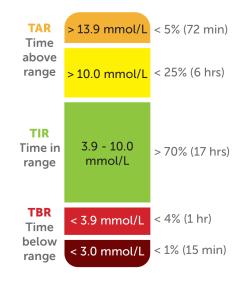


Continuous Glucose Monitoring (CGM) Goals

- 1. Aim for time in ranges goals
- 2. Strive for flat, narrow, in-range (FNIR) glucose profile
- 3. Minimize glycemic variability (CV \leq 36 % ^{1,2})







CV, coefficient of variation; T1D, type 1 diabetes; T2D, type 2 diabetes.

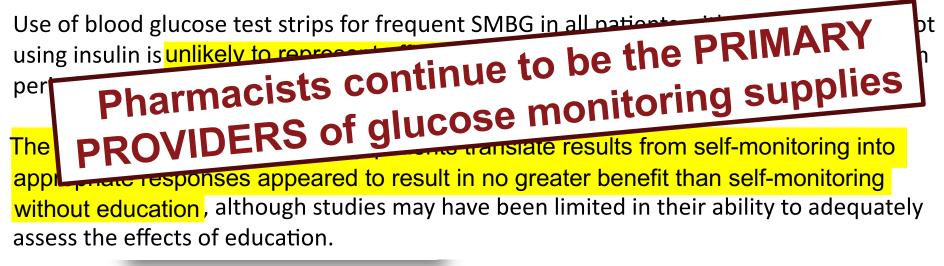
1Battelino T et al. Diabetes Care. 2019; 42(8): 1593-1603. 2. Cheng A et al. Can J Diabetes. 2021; 45: 580-587.



Problem: Blood Glucose Monitoring in People with Diabetes



A summary interpretation of the data



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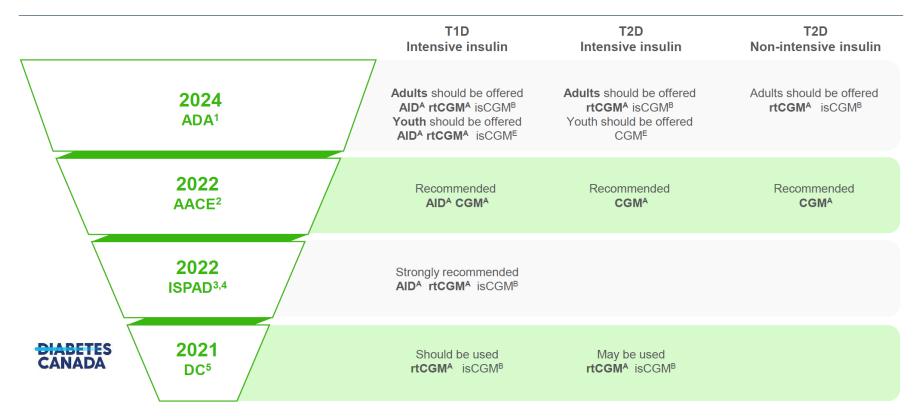
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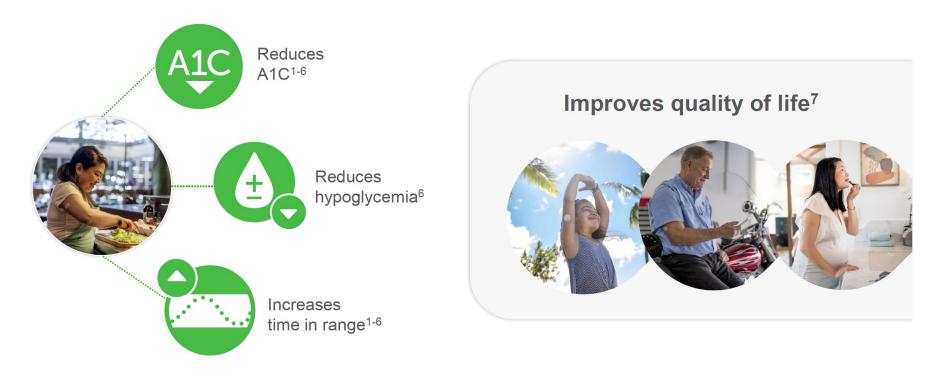
https://www.cadth.ca/self-monitoring-bloodglucose#:~:text=CADTH%200ptimal%20Use%20Project&text=SMBG%20can%20be%20performed%20at,a%20number%20on%20its%20screen.

Evolution of Clinical Practice Guidelines



A-E, Grade of evidence where A is the highest level of evidence. ADA, American Diabetes Association; ISPAD, International Society for Pediatrics and Adolescent Diabetes; AACE, American Association of Clinical Endocrinology; DC, Diabetes Canada; T1D, type 1 diabetes; T2D, type 2 diabetes; rtCGM, real-time continuous glucose monitoring; isCGM, intermittently-scanned continuous glucose monitoring; CGM, continuous glucose monitoring; AID, automated insulin delivery. 1. El Sayed NA et al. *Diabetes Care*. 2024;47:S124-S144. 2. Blonde L et al. *Endocrine Practice*. 2022 Oct;28(10):923-1049. 3. Tauschmann et al. *Pediatr. Diabetes*. 2022;23(8):1390-1405. 4. Sherr JL et al. *Pediatr. Diabetes*. 2022;23(8):1406-1431. 5. Cheng AYY et al. *Can J. of Diab*. 2021;45:580-587.

Proven Outcomes with Continuous Glucose Monitoring



1 Beck RW, et al. JAMA. 2017;317(4):371-378. 2 Beck RW, et al. Ann Intern Med. 2017;167(6):365-374. 3 Martens T, et al. JAMA. 2021;325(22):2262-2272. 4 Laffel LM, et al. JAMA. 2020;323(23):2388-2396. 5 Welsh JB, et al. J Diabetes Sci Technol.



2022;19322968221099879. 6. Heinemann L. et al. Lancet 2018;391 :1367-77. 7 Gilbert TR et al. Diabetes Technol Ther. 2021:23(S1):S35-S39.

Role Play

Hi Sadaf, Susie Jin here, your pharmacist. I see you're in to pick up a repeat on your Dexcom G7* glucose sensors. Many people today are wearing glucose sensors but are not fully getting the most out of what glucose sensors can do to improve their health. Would you have a few minutes so I can try to make sure that this technology is optimally supporting your health?

*can equally substitute the tradename "Libre2 sensors"

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0% Very Low

-History

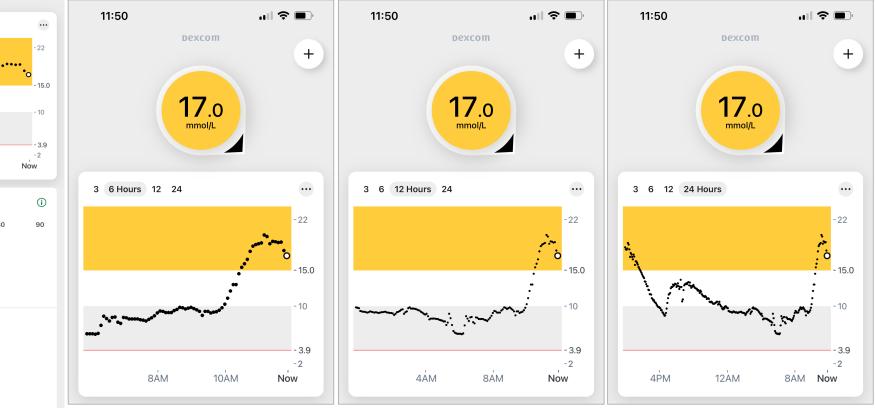
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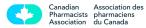
Glucose

 $\left[\right]$

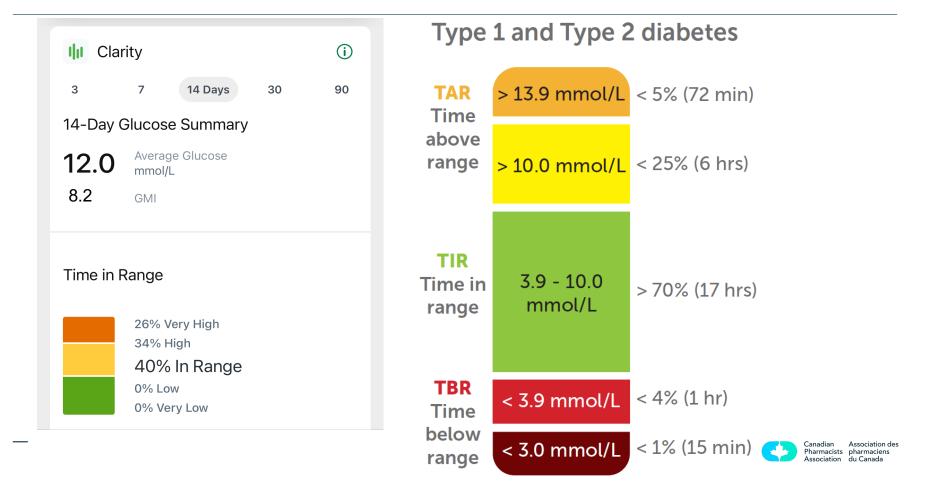
Connections

Dexcom G7 Home Screen





Sadaf's Time In Range compared to Standardized CGM Metrics



Poll 1:

Looking at Sadaf's Dexcom G7 Time In Range, we know that Sadaf's glucose-related issue is:

- A. Hypoglycemia
- B. Hyperglycemia
- C. No issues, Time-In-Range is at target



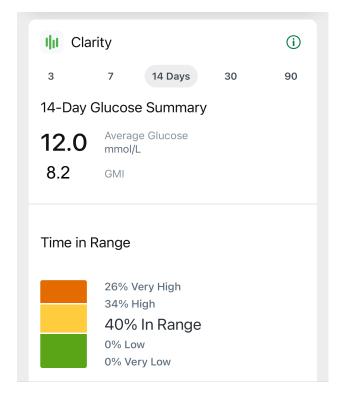
Sadaf's Relevant Medical History and Medications

45 years old

Type 2 diabetes x 5 years Obesity, no other comorbidities stressful, sedentary employment

Current medications:

- Metformin 1,000mg p.o. twice daily
- Empagliflozin 10mg p.o. once daily
- Perindopril 8mg p.o. once daily
- Rosuvastatin 10mg p.o. once daily
- Insulin glargine U-100 25 units s.c. once daily



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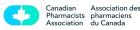
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Poll 2:

Having assessed Sadaf's current glycemic management, and based on the last day you were at work, what action would you take?

- A. Offer to book an appointment for Sadaf so that YOU can support Sadaf in her diabetes self-management
- B. Refer Sadaf back to her diabetes health-care team, e.g., her primary care provider and/or the local diabetes education centre

NOTE: There is NO ABSOLUTE CORRECT ANSWER, many times for me (susie jin), it may depend on "is it flushot season"... do I have adequate capacity to offer care... and Where and With whom would Sadaf like to seek care?





During an appointment with Sadaf...

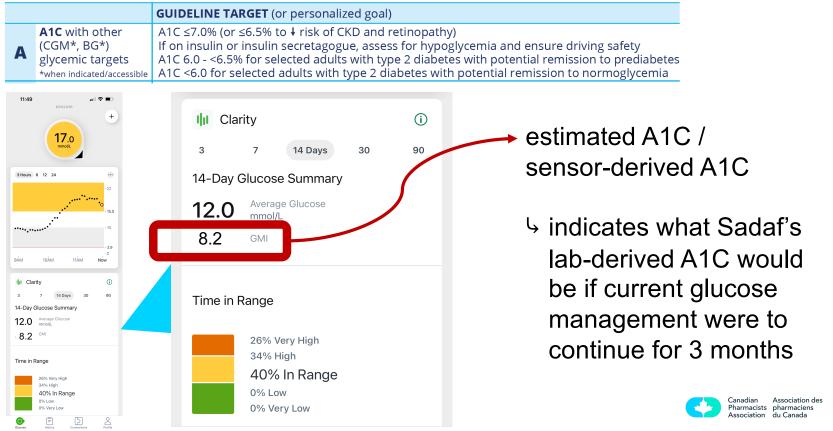
ABCDES of diabetes care

		GUIDELINE TARGET (or personalized goal)	
A	A1C with other (CGM*, BG*) glycemic targets *when indicated/accessible	A1C ≤7.0% (or ≤6.5% to $↓$ risk of CKD and retinopathy) If on insulin or insulin secretagogue, assess for hypoglycemia and ensure driving safet A1C 6.0 - <6.5% for selected adults with type 2 diabetes with potential remission to pred A1C <6.0 for selected adults with type 2 diabetes with potential remission to normogly	diabetes
B	BP targets	BP <130/80 mmHg If on treatment, assess for risk of falls	
С	Cholesterol targets	LDL-C ≤2.0 mmol/L (or >50 % reduction from baseline); non-HDL-C ≤ 2.6 mmol/L, apo B ≤ 0.8 g/L If ASCVD, LDL ≤ 1.8 mmol/L. Alternative: non-HDL-C ≤2.4 mmol/L, apo B ≤0.7 g/L	
D	Drugs for CV and/ or Cardiorenal protection	 GLP1-RA + SGLT2i with demonstrated cardiorenal benefits if type 2 with ASCVD, CKD OR Age >60 with ≥2 CV risk factors ACEi/ARB if CVD, age ≥55 with risk factors, OR diabetes complications Statin if age ≥40, age ≥30 and diabetes >15 years OR diabetes complications ASA if CVD +/- finerenone if T2D + CKD with albuminuria 	or HF,
E	Exercise goals and healthy eating	 150 minutes of moderate to vigorous aerobic activity/ week and resistance exercises 2-3 times/week Follow healthy dietary pattern (eg Mediterranean diet, low glycemic index) 	
S	Screening	 Cardiac: ECG every 3-5 years if age >40 OR diabetes complications Foot: Monofilament/Vibration yearly or more if abnormal Kidney: Test eGFR and ACR yearly, or more if abnormal Retinopathy: type 1 - annually; type 2 - every 1-2 years Immunizations: ensure up-to-date as per NACI recommendations 	
S	Smoking cessation	If smoker: Ask permission to give advice, arrange therapy and provide support	
S	Self-management, stress, sleep, other barriers	 Set personalized goals (see "individualized goal setting" panel) Assess for stress, sleep, mental health and financial or other concerns that might be barriers to goals 	



During an appointment with Sadaf...

ABCDES of diabetes care



Discuss what would Sadaf like her A1C to be...

A1C Targets for glycemic management

A1C (%) Targets

<6.0	Selected adults with type 2 diabetes with potential for remission to normoglycemia			
≤6.5*	Adults with type 2 diabetes to reduce the risk of chronic kidney disease and retinopathy if at low risk of hypoglycemia [†]			
≤7.0	≤7.0 MOST ADULTS WITH TYPE 1 OR TYPE 2 DIABETES			
7.1 8.5	 7.1-8.5%: • Recurrent severe hypoglycemia and/or hypoglycemia unawareness 			
Avoid higher A1C to minimize risk of symptomatic hyperglycemia and acute and chronic complications				

End of life: A1C measurement not recommended. Avoid symptomatic hyperglycemia and any hypoglycemia.

* Target 6.0 to <6.5 for adults with type 2 diabetes with potential for remission to prediabetes

† Based on class of antihyperglycemic medication(s) utilized and the person's characteristics

‡ See Diabetes in Older People chapter



ABCDESSS

Drugs for Cardiovascular and/or Renal Protection



Does the individual have / Is the person :

Atherosclerotic Cardiovascular Disease • Coronary artery disease, Peripheral arterial disease, Cerebrovascular/carotid disease	GLP-1 RA ¹ + SGLT2i ¹ + Statin ² + ACEi/ARB ³ + ASA ⁴			
 Age >60 with ≥2 additional cardiovascular risk factors⁵ 	additional cardiovascular risk factors ⁵ GLP-1 RA¹ + SGLT2i¹ + Statin² + ACEi/ARB³			
 Chronic Kidney Disease (eGFR <60 mL/min/1.73m², ACR ≥2.0 mg/mmol) 	SGLT2i ¹ + Statin ² + ACEi/ARB ³ +/- GLP-1 RA +/- finerenone ⁶			
• Heart Failure (see HF guidelines for other warranted therapies)	SGLT2i ¹ + Statin ² + ACEi/ARB ³	Sadaf:		
 Retinopathy Neuropathy Left ventricular hypertrophy Age ≥55 with additional cardiovascular risk factors⁷ 	Statin ² + ACEi/ARB ³	45 year	/ears old	
 Age ≥40 Age ≥30 and diabetes >15 years Warranted for statin therapy based on the Canadian Cardiovascular Society (CCS) Lipid Guidelines Metabolic dysfunction-Associated Steatotic Liver Disease (MASLD) ⁶ 	Statin ²	Obesity	diabetes x 5 years , no other comorbidities II, sedentary employment	

1 GLP-1 RA / SGLT2i: Should be given at doses that have demonstrated vascular protection. Not approved by Health Canada for use in type 1 diabetes.

2 See Canadian Cardiovascular Society (CCS) Lipid Guidelines for other warranted therapies. Dose adjustments if lipid targets not being met, e.g., LDL-C ≤2.0 mmol/L (non-HDL-C ≤ 2.6 mmol/L, apo B ≤ 0.8 g/L); or, with ASCVD, LDL-C ≤1.8 mmol/L (non-HDL-C ≤2.4 mmol/L, apo B ≤0.7 g/L)

3 ACE-inhibitor or ARB should be given at doses that have demonstrated vascular protection (e.g., perindopril 8 mg once daily [EUROPA trial], ramipril 10 mg once daily [HOPE trial], telmisartan 80 mg once daily [ONTARGET trial]).

5 Tobacco use; dyslipidemia (use of a lipid modifying therapy or a documented untreated LDL ≥3.4 mmol/L or HDL-C <1.0 mmol/L for men and <1.3 mmol/L for women, or triglycerides ≥2.3 mmol/L); or hypertension (use of blood pressure drug or untreated SBP ≥140 mm Hg or DBP ≥90 mmHg); central obesity

6 Adult with type 2 diabetes

7 TC > 5.2 mmol/L, HDL-C < 0.9 mmol/L, hypertension, albuminuria, smoking



⁴ ASA should not routinely be used for the primary prevention of cardiovascular disease in people with diabetes. ASA may be used for secondary prevention. Consider clopidogrel if ASA-intolerant.

Poll 3:

Sadaf is 45 years old with type 2 diabetes for 5 years. She lives with obesity and no other comorbidities. The agents indicated for cardiovascular and renal protection for Sadaf are:

- A. Statin
- B. Statin + ACEi/ARB
- C. Statin + ACEi/ARB + GLP-1 RA and/or SGLT2i
- D. Statin + ACEi/ARB + SGLT2i and/or GLP-1 RA
- E. Statin + ACEi/ARB + GLP-1 RA and/or SGLT2i +/- finerenone
- F. Statin + ACEi/ARB + GLP-1 RA and/or SGLT2i + ASA



Poll 3:

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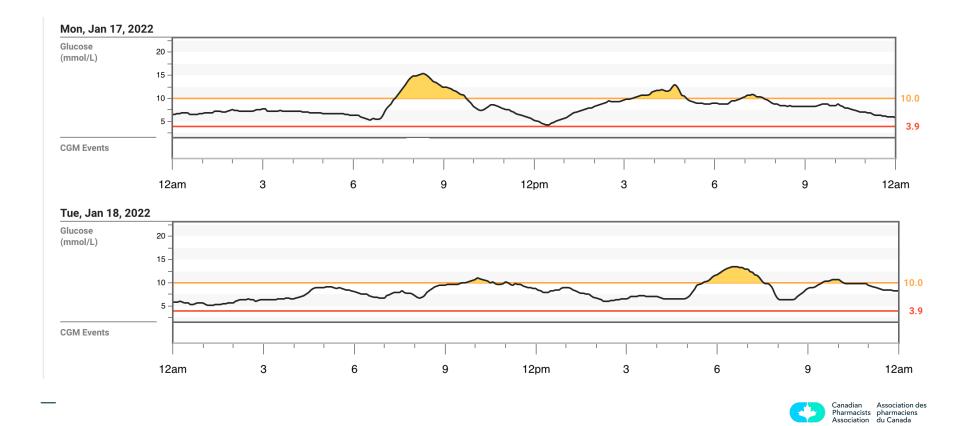
During an appointment with Sadaf...

ABCDES of diabetes care

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B BP targets BP <130/80 mmHg If on treatment, assess for risk of falls				
С	Cholesterol targets	LDL-C ≤2.0 mmol/L (or >50 % reduction from baseline); non-HDL-C ≤ 2.6 mmol/L, apo B ≤ 0.8 g/L If ASCVD, LDL ≤ 1.8 mmol/L. Alternative: non-HDL-C ≤2.4 mmol/L, apo B ≤0.7 g/L		
D	or Cardiorenal protection	 GLP1-RA + SGL12I with demonstrated cardiorenal benefits if type 2 with ASCVD, CKD of HF, OR Age >60 with ≥2 CV risk factors ACEi/ARB if CVD, age ≥55 with risk factors, OR diabetes complications Statin if age ≥40, age ≥30 and diabetes >15 years OR diabetes complications ASA if CVD +/- finerenone if T2D + CKD with albuminuria 		
E	Exercise goals and healthy eating	 150 minutes of moderate to vigorous aerobic activity/ week and resistance exercises 2-3 times/week Follow healthy dietary pattern (eg Mediterranean diet, low glycemic index) 		
S	Screening	 Foot: Monofilament/Vibration yearly or more if abnormal Kidney: Test eGFR and ACR yearly, or more if abnormal Retinopathy: type 1 - annually; type 2 - every 1-2 years Immunizations: ensure up-to-date as per NACI recommendations 		
S	Smoking cessation	If smoker: Ask permission to give advice, arrange therapy and provide support		
S	Self-management, stress, sleep, other barriers	 Set personalized goals (see "individualized goal setting" panel) Assess for stress, sleep, mental health and financial or other concerns that might be barriers to goals 		



The "Power" of Food:



PRESCRIPTION FOR BETTER BLOOD SUGAR



Your recent blood tests show that your blood sugar is trending higher. This means that you have ___ prediabetes or ___ type 2 diabetes. But with some simple dietary and lifestyle changes you can lower your blood sugar and greatly reduce your risk of future health complications. The key is to consume less sugar, or food and drinks that digest to sugar. Here's the prescription for what to do:

Drinks

Simply cutting out sugary drinks will go a long way to improve your blood sugar. For some people this is the only change they need to make. When in doubt, water is always a great choice; try it with a squeeze of lemon or lime:

- ENJOY water, sparkling water, diet sodas
- AVOID sugary soft drinks, and fruit juice of any kind Sweet tea or coffee, sweet specialty coffees
- Unsweetened tea or coffee (black or with cream) • The occasional dry wine, champagne, gin or vodka with water or ice
- Beer, sweet cocktails, liqueurs, fortified wines, sweet wines

Breakfast

dessert

Whatever time you have your first meal of the day, begin with protein and fiber. Follow the advice for lunch and dinner below and make all meals consist of protein fibre and a bit of fat for flavor. Leftovers are areat

- . ENJOY plain Greek yogurt, or cottage cheese, with fresh or frozen berries topped with nuts and seeds
- AVOID boxed cereals, oatmeal, granola, or grainbased porridges
- . Eggs any way; grilled meat or fish; cheese, sliced tomato, vegetables, avocado, ham, fish, or bacon
- . Pastries, donuts, muffins, toast, bagels, flour-based baked goods, pancakes with syrup

Lunch & Dinner

1.Pick a protein like meat, poultry, fish, eggs, or tofu. 2. Have as many leafy-green or above ground vegetables as you want. 3: Add a bit of fat, like butter or olive oil, for flavor. As easy as 1, 2, 3.

- ENJOY grilled, baked, broiled, poached, or fried AVOID breaded or deep-fried meat, poultry or fish meat, fish, poultry, or tofu Pasta, potatoes, rice, bread, pita, tortillas, naan, or
- · Plenty of above ground vegetables, leafy salads, with butter, salad dressing, or olive oil and vinegar
- other starches Cakes, cookies, pastries, ice cream, or any sweets for
- For dessert cheese and nuts, plain yogurt with berries

Snacks

Eat enough at meal times that you are not hungry for snacks, but if you need a snack choose the following.

- ENJOY veggies and yogurt dip, hard boiled eggs, unsweetened jerky, slices of cheese, a handful of nuts like roasted almonds or pistachios.
- AVOID chocolate bars, sweets, muffins, donuts, pastries, potato chips, pretzels, nachos, crackers, popcorn, corn chips or other packaged snacks.

Sleep, Movement, Stress

Consuming less sugar, or foods that digest to sugar, will go a long way to improve your blood sugar levels. But other lifestyles changes can help, too, especially getting enough sleep, moving your body in activities you enjoy, and reducing stress.

- **TRY** to go to bed and get up at the same time every day: Sleep in a guiet, dark bedroom, Avoid screens . before bed. Put the cellphone in another room. enjoyable exercise
- Try not to sit at a desk for long periods. Get up regularly to move.
- Try to walk daily, or do other light exercise or movement that you enjoy. Work up to regular,
- Try meditation, breathing exercises, a warm bath, and other stress reducing activities.
- Remission Possible | diabetesremission.ca





PRESCRIPTION FOR BETTER BLOOD SUGAR

REMISSION Possible?

When you're grocery shopping stick to the outer rim of the store. Frozen berries and vegetables are great to have on hand and won't go bad. Pick up any of the following items:

rutabaga

scallions

shallots

sprouts

squash

snow peas

sugar snap peas

Proteins

beef lamb pork poultry game fish seafood luncheon meats & sausages* eggs tofu, tempeh, natto*

Natural fats

avocado oil bacon chicken fat (schmaltz) coconut milk coconut oil full-fat salad dressings* ghee lard and tallow mayonnaise nuts and nut butters nut oils of all types olive oil sesame oil artichoke asparagus avocado bok choy broccoli Brussels sprouts cabbage cauliflower celery cucumber eggplant fennel

Vegetables

garlic

jicama

kholrabi

leeks

okra

olives

onion

parsley

peppers

pickles*

pumpkin radishes

rhubarb

green beans

hearts of palm

leafy greens

mushrooms

r tomatillos tomato turnip zucchini

Fruit

blueberries raspberries strawberries blackberries lemons limes

Low carb and keto diets have become very popular. You can find many cookbooks, websites, and magazines with a wide variety of delicious and filling low carb and keto recipes.

Remission Possible | diabetesremission.ca

Dairy products

butter cheeses of all kinds cottage cheese cream cheese ghee cream cream (18%, whipping*) mascarpone ricotta sour cream yogurt - plain, full-fat

*no added sugar or starches

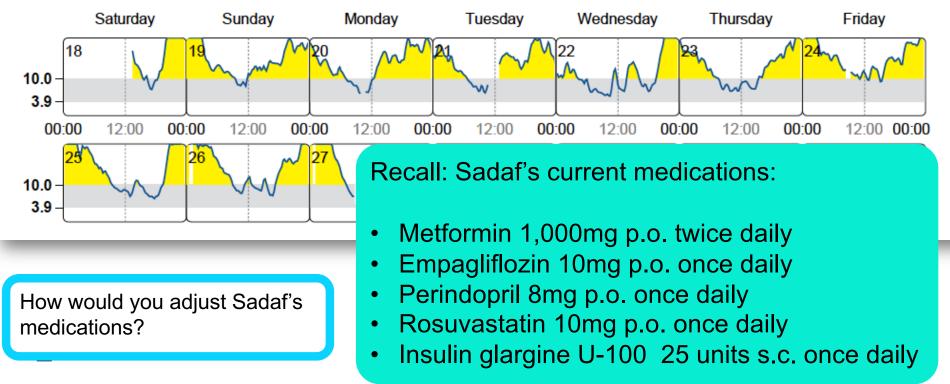


*Adapted (partial view)



The "Power" of Food

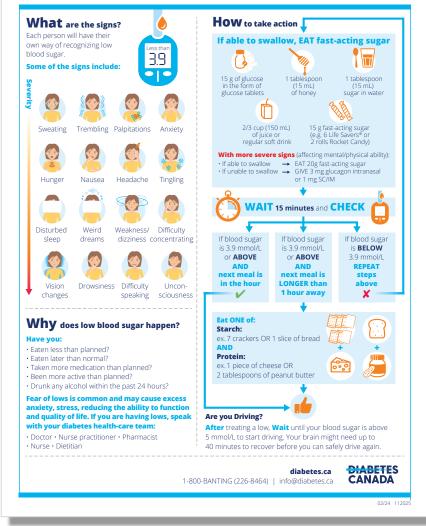
DAILY GLUCOSE PROFILES



Each daily profile represents a midnight to midnight period with the date displayed in the top-left corner.



Hypoglycemia low blood sugar in adults





Poll 4:

After your discussion with Sadaf about the "Power" of Food, Sadaf appears motivated to adopt low(er) carbohydrate foods in her eating routine. When would you follow-up with Sadaf?

- A. 1 day
- B. 3 days
- C. 7 days
- D. 14 days
- E. 1 month

Recall: Sadaf's current medications:

- Metformin 1,000mg p.o. twice daily
- Empagliflozin 10mg p.o. once daily
- Perindopril 8mg p.o. once daily
- Rosuvastatin 10mg p.o. once daily
- Insulin glargine U-100 25 units s.c. once daily

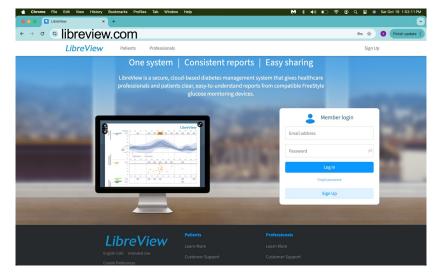


Supporting Virtual Follow-Up Care

Dexcom CLARITY

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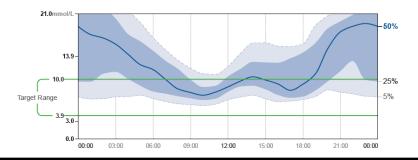
AGP Report

18 March 2023 - 31 March 2023 (14 Days)



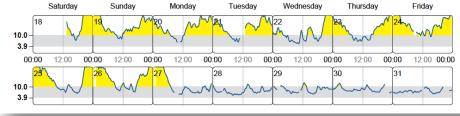
AMBULATORY GLUCOSE PROFILE (AGP)

AGP is a summary of glucose values from the report period, with median (50%) and other percentiles shown as if occurring in a single day.



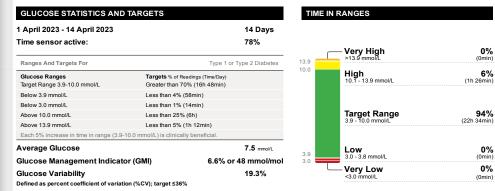
DAILY GLUCOSE PROFILES





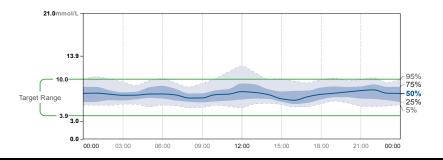
AGP Report

1 April 2023 - 14 April 2023 (14 Days)



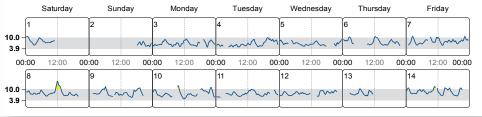
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DAILY GLUCOSE PROFILES

Each daily profile represents a midnight to midnight period with the date displayed in the top-left corner.



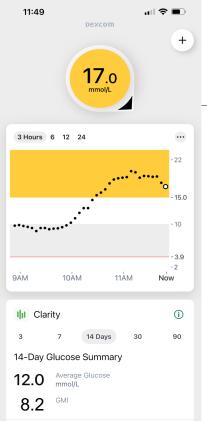
Action Goals

By the end of this webinar, participants will WANT to:

Proactively engage with people in our community pharmacies to ensure:

- ✓ People who are using continuous glucose monitoring (CGM), know their CGM numbers and what they mean
- ✓ People who could benefit from using CGM to support their diabetes self-care are aware of how CGM technology could help them





Time in Range



Know Your Numbers and What They Mean



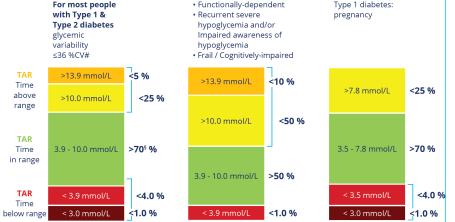
A1C (%) Targets Selected adults with type 2 diabetes with potential for remission to normoglycemia <6.0 Adults with type 2 diabetes to reduce the risk of chronic kidney disease and retinopathy ≤6.5* if at low risk of hypoglycemia^t ≤7.0 **MOST ADULTS WITH TYPE 1 OR TYPE 2 DIABETES** 7.1 7.1-8.0%: Functionally dependent⁺ 7.1-8.5%: Recurrent severe hypoglycemia and/or hypoglycemia unawaren 8.5 • Frail individuals and/or with cognitive impairment[‡] · Limited life expectancy glycemic Avoid higher A1C to minimize risk of symptomatic hyperglycemia and act variability ≤36 %CV# End of life: A1C measurement not recommended. Avoid symptomatic hyperglycemia and any hypog * Target 6.0 to <6.5 for adults with type 2 diabetes with potential for remission to prediabetes Based on class of antihyperglycemic medication(s) utilized and the person's characteristics TAR ‡ See Diabetes in Older People chapter Time above range

Blood Glucose (BG) Targets for glycemic manager

A1C Targets for glycemic management

Blood Glucose (BG) Targets	Fasting / Preprandial BG (mmol/L)	2-
For most people with diabetes	4.0 - 7.0	5.0

Continuous Glucose Monitoring (CGM) Targets for glycemic management (when indicated*/accessible) For most people with Type 1 diabetes: Pagurant course



§ Corresponds with an A1C of approximately 7%; # glycemic variability reported as % coefficient of variation (%CV) * When not at risk of hypoglycemia, may consider targeted, periodic use of CGM in engaged individuals to identify therapeutic gaps, tailor therapy and support individualized daily self-management Every absolute 10% change in %TIR correlates with 0.5-0.8% change in A1C



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If using Libre2...

A1C Targets for glycemic management

	A1C (%)	Targets				
	<6.0	Selected adults with type 2 diabetes with potential for remission to normoglycemia			а	
	≤6.5*	Adults with type 2 diabetes to reduce th if at low risk of hypoglycemia [†]	e risk of ch	ronic kidney disea	ase and retino	pathy
≤7.0 MOST ADULTS WITH TYPE 1 OR TYPE 2 DIABETES						
	71 71 9 00/ Eupstionally dependent		e with Type 1 diabetes hypoglyce			 Functionally-depend Recurrent severe hypoglycemia and/c
	Avoid I			Impaired awareness hypoglycemia		
End of life: A1C measurement not recommended. Avoid symptom * Target 6.0 to <6.5 for adults with type 2 diabetes with potential † Based on class of antihyperglycemic medication(s) utilized and t ‡ See Diabetes in Older People chapter Blood Glucose (BG) Targets for g		TAR Time above range	≤36 %CV# >13.9 mmol/L >10.0 mmol/L	<5 % <25 %	Frail / Cognitively-im	
						>10.0 mmol/L

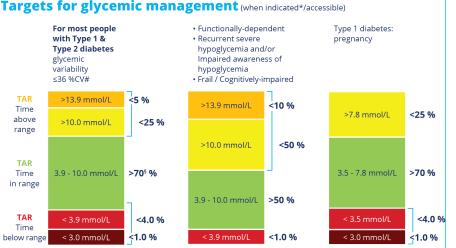
TAR

Time

TAR

Time

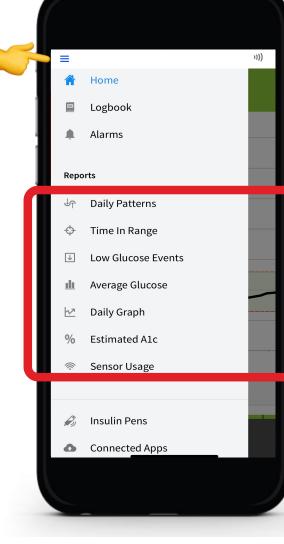
Blood Glucose (BG) Targets	Fasting / Prepr	
For most people with diabetes	4.0 - 7.0	



§ Corresponds with an A1C of approximately 7%; # glycemic variability reported as % coefficient of variation (%CV) * When not at risk of hypoglycemia, may consider targeted, periodic use of CGM in engaged individuals to identify therapeutic gaps, tailor therapy and support individualized dally self-management Every absolute 10% change in %TIR correlates with 0.5-0.8% change in A1C

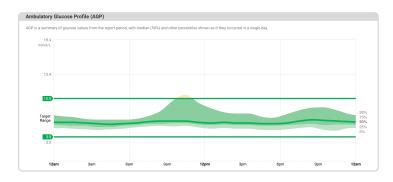


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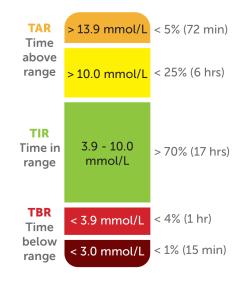


Continuous Glucose Monitoring (CGM) Goals

- 1. Aim for time in ranges goals
- 2. Strive for flat, narrow, in-range (FNIR) glucose profile
- 3. Minimize glycemic variability (CV \leq 36 % ^{1,2})







CV, coefficient of variation; T1D, type 1 diabetes; T2D, type 2 diabetes.

1Battelino T et al. Diabetes Care. 2019; 42(8): 1593-1603. 2. Cheng A et al. Can J Diabetes. 2021; 45: 580-587.



Poll 5:

I am comfortable explaining Time-In-Range (including Time-Below-Range and Time-Above-Range) to a person who is using Continuous Glucose Monitoring technology.

- A. Strongly Agree
- B. Agree
- C. Disagree
- D. Strongly Disagree



Poll 6:

I am comfortable explaining the Glucose Management Indicator (GMI), [also known as Estimated A1C or Sensor-derived A1C] to a person who is using Continuous Glucose Monitoring technology.

- A. Strongly Agree
- B. Agree
- C. Disagree
- D. Strongly Disagree



By the end of this webinar, participants will WANT to:

Proactively engage with people in our community pharmacies to ensure:

- ✓ People who are using continuous glucose monitoring (CGM), know their CGM numbers and what they mean
- ✓ People who could benefit from using CGM to support their diabetes self-care are aware of how CGM technology could help them



RECALL: Role Play

Proactively engage:

- Identify people when they are picking up repeats on their CGM sensors
- ✓ When people order repeats for their CGM sensors, if they are connected to your practice (Dexcom Clarity or Libreview), check their CGM stats during clinical verification...
 - ✓ flag the repeat for counselling during pick up
 - call them when the timing suits you to offer support with CGM data



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Who could benefit from using Continuous Glucose Monitoring?

- All persons on insulin
- Consider for persons using sulfonylureas
- Persons with hypoglycemia regardless of etiology
- Consider:
 - Episodic CGM as an audit of glycemic patterns in any person with diabetes or prediabetes
 - when A1C is above the person's individualized target
 - for persons desiring information on impact of food and physical activity





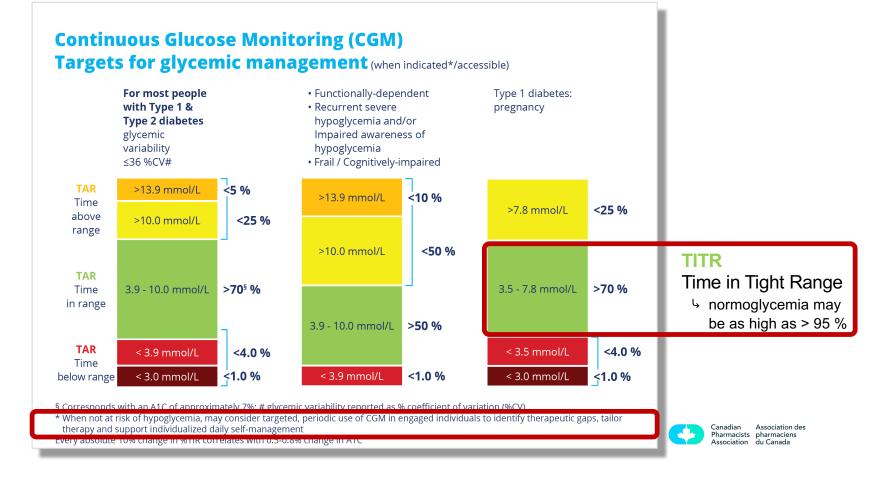


- Identifying
- Treating
- Prevention

Reference: Handelsman, Y. DCRM 2.0: Multispecialty practice recommendations for the management of diabetes, cardiorenal, and metabolic diseases. Metabolism 159 (2024) 155931 https://doi.org/10.1016/j.metabol.2024.155931



Who could benefit from using Continuous Glucose Monitoring?



Using CGM Daily in ENGAGED INDIVIDUALS: learn from colours, learn from arrows

GLUCOSE IN RANGE	10.3 ⁷ mmol/L	▲ GLUCOSE GOING HIGH 12.9 ↑
mmol/L 21	mmol/L 21	mmol/L 21
18	more green, less red/y	ellow
Good food choices	³ ⁷ OK food choices ^{12pm} ^{3pm} ^{6pm}	3 ↑ What did I just eat? 12pm 3pm 6pm Canadian Association des Pharmaciens Pharmaciens

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Using CGM Daily: compare daily CGM to daily TIR



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What about cost and access?



Return to Poll 2:

Having assessed Sadaf's current glycemic management, and based on the last day you were at work, what action would you take?

- A. Offer to book an appointment for Sadaf so that YOU can support Sadaf in her diabetes self-management
- B. Refer Sadaf back to her diabetes health-care team, e.g., her primary care provider and/or the local diabetes education centre

Both are correct. Both can result in improved health outcomes for Sadaf. Our ACTION on Continuous Glucose Monitoring can make a difference.



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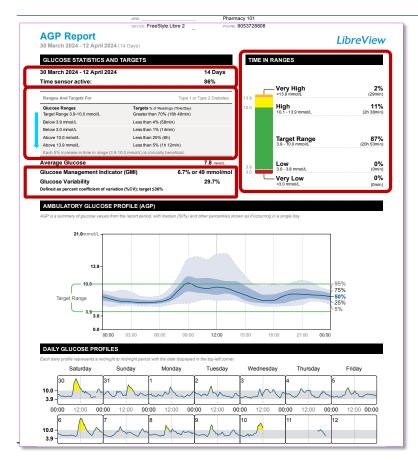


Thank you



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What if... Sadaf 1 year later



45 years old \rightarrow 46 years old

Type 2 diabetes x 5 years \rightarrow 6 years old Obesity, no other comorbidities \rightarrow weight down by 10% (BMI 32) stressful, sedentary employment

Current medications:

- Metformin 1,000mg p.o. twice daily
- Empagliflozin 10mg p.o. once daily
- Perindopril 8mg p.o. once daily
- Rosuvastatin 10mg p.o. once daily
- Insulin glargine U-100 25 units s.c. once daily 10



Poll 7:

Based on Sadaf's continuous glucose monitoring data, what would you recommend for Sadaf for her glycemic management?

- A. No change. Sadaf is at her A1C target
- B. Increase basal insulin. Sadaf could target an A1C of ≤6.5 % to reduce her risk of chronic kidney disease and retinopathy
- C. Increase SGLT2i for more glucose lowering and kidney and heart protection
- D. Stop basal insulin, start incretin agonist therapy to support Sadaf's priority of weight management, and potential glucose lowering to target an A1C of <6.5%</p>

